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(US). NESBITT, Daniel, Frederick [US/US]; 8906 Terwilliger's Trail, Cincinnati, OH 45249 (US).

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(74) Agent: NESBITT, Daniel, F.; Hasse & Nesbitt LLC, 7550 Central Parke Blvd., Mason, OH 45040 (US).

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(71) Applicant (for all designated States except US): CHIL-DREN'S HOSPITAL MEDICAL CENTER [US/US]; 3333 Burnet Avenue, Cincinnati, OH 45229 (US).

(72) Inventors; and

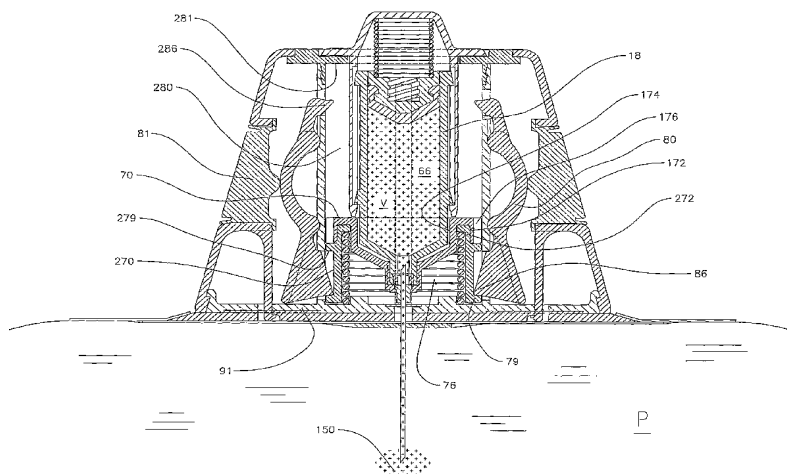
(75) Inventors/Applicants (for US only): WALL, Eric, James [US/US]; 3480 Tiffany Ridge Lane, Cincinnati, OH 45241 (US). WARD, Jarvis [US/US]; 3411 Clifton Ave., Apt. 24C, Cincinnati, OH 45220 (US). NESBITT, Christopher, J. [US/US]; 312 Rainbow Ridge, Cincinnati, OH 45215

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(54) Title: INJECTION DEVICE FOR ADMINISTERING A VACCINE



(57) Abstract: A manually-powered injection device that self-administers a painless injection. The injection device provides a method for substantially painless injections of vaccine and other medication into a patient that does not require the use of an anesthetic, that does not require the medical personnel to spend a substantial amount of time performing the injection procedure, that is relatively simple and inexpensive to perform and operate, and that provides a relatively high degree of safety for both the medical personnel and for the patient. The injection needle can have an outside diameter greater than 0.10 mm and less than about 0.38 mm. The vaccine or other medicament can be injected painlessly through the needle and into the patient at a substantially constant volumetric flow rate of about 0.05 $\mu\text{L/s}$ to about 50 $\mu\text{L/s}$, typically over a 3- to 5-minute period of time. The injection device is configured for easy handling, and is manually powered by the use of the hand or fingers of the medical technician, patient or other person.

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**Declaration under Rule 4.17:**

- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT,

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